

CLAIMS

1. A method of allocating transmission resources (209) by a resources server (204) in a telecommunication network (202-204) connecting users (202, 203),

5 characterized in that:

- users who have logged on are classified into classes representative of their contracts or the services for which they have contracted,

- a transmission resource is allocated to each user who is in the process of communication in compliance with the class of his contract or service, and

- the classes are organized in a scanning cycle, the frequency at which each class appears in said cycle following a geometrical progression.

2. A method according to claim 1, characterized in that a transmission resource is allocated to each user who is in the process of communication in compliance with the class of his contract or service and his requirement.

3. A method according to claim 1 ~~or claim 2~~, characterized in that:

- for classification, a table (400) is created including for each user:

- a reference field (401) relating to an identity of the user,
- a field (405) for designating a user to be serviced before that user, and
- a field (404) for designating a user to be serviced after that user, and

- available transmission resources are allocated to the various users in accordance with an order resulting from said table.

4. A method according to claim 3, characterized in that:

- the requirements of users are stored in a field

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1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

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level, the number of paths in which is a power of 2.

7. A method according to claim 6, characterized in that:

- communication time is divided into cycles (601, 602),
- each cycle is divided into frames, for example 8 frames each of 5 milliseconds,
- each frame is divided into time slots, for example 100 time slots per frame, and
- the resource is allocated in the form of a number of time slots per cycle.

8. A method according to ~~either claim 6 or claim 7~~, characterized in that the resource allocated is in the form of code, for example in the case of code-division multiple access (CDMA).

9. A method according to ~~either claim 7 or claim 8~~, characterized in that:

- a path of the tree of lists of users is scanned,
- resources corresponding to the requirements of the users present in the lists of said path are allocated without the resources allocated being able to exceed one frame,
- if unallocated time slots remain at the end of scanning said path they are allocated to other users who have entered into contracts for lower priority services, and
- if the size of the frame is exceeded, the allocation requirements are transferred to a frame of a subsequent cycle.

10. A method according to ~~any one of claims 6 to 9~~, characterized in that the tree of lists of users or a path of that tree is scanned as long as an allocatable resource threshold is not reached.

A 11. A method according to ~~any one of claims 8 to 10,~~
characterized in that the order of scanning the lists of
users in a table contained in memory (Table 1) is stored.

5 12. A resource allocation system characterized in that
it includes means for implementing a method according to
A ~~any of claims 1 to 11.~~

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